



Espacenet

Bibliographic data: JP 11070090 (A)

BIOELECTRICITY IMPEDANCE MEASURING DEVICE

Publication date: 1999-03-16
Inventor(s): KUBOTA YASUYUKI; ISHIDA ISAO; ISHII TETSUYA +
Applicant(s): SEKISUI CHEMICAL CO LTD +
Classification: - international: **A61B5/05**; (IPC1-7): A61B5/05
- European:
Application number: JP19970234106 19970829
Priority number(s): JP19970234106 19970829

Abstract of JP 11070090 (A)

PROBLEM TO BE SOLVED: To carry out bioelectricity accurate measurement with least errors, by fitting an electrode pair on the inside of at least one wrist and measuring bioelectricity impedance.

SOLUTION: A first electrode pair 15 with a first current conducting electrode CA and a first potential detecting electrode PA is adhered, for instance, on the inside of the wrist of left hand LH of a subject, and a second electrode pair 16 with a second current conducting electrode CB and a second potential detecting electrode PB on the inside of the wrist of right hand RH. At this time, the current conducting electrodes CA, CB are attached on positions farther than the potential detecting electrodes PA, PB from the center of a human body. By calculation from plural measurement results obtained by using measurement signals of variable frequency, bioelectricity impedance at frequency 0 and bioelectricity impedance at frequency infinite can be obtained and thereby extracellular fluid resistance and intracellular fluid resistance in an equivalent circuit shown in the diagram are correctly obtained. The body composition such as a body fat ratio of a subject can be estimated from the obtained result and body feature items.

